Calibration Gases used in Flue Gas Testing of Unit 2

<u>Location</u>	Gas	<u>use</u>	Concentration
Eleventh Floor Test Station	Nitrogen	zero gas	99.99% pure
Eleventh Floor Test Station	CO	Carbon Monoxide Calibration	1000 ppm
Eleventh Floor Test Station	CO ₂	Carbon Dioxide Calibration	18.88%
Eleventh Floor Test Station	O_2	Oxygen Span Gas Calibration	8.01%
Eleventh Floor Test Station	O_2	Oxygen Zero Gas Calibration	0.40%
Stack	СО	Carbon Monoxide Calibration	997 ppm
Stack	O_2	Oxygen Span Gas Calibration	8.00%
Stack	O_2	Oxygen Zero Gas Calibration	0.40%
4th Floor West Side Test Station	Nitrogen	zero gas	99.99% pure
5th Floor West Side Test Station	CO ₂	Carbon Dioxide Calibration	18.88%
6th Floor West Side Test Station	O_2	Oxygen Span Gas Calibration	8.02%
4th Floor East Side Test Station	Nitrogen	zero gas	99.99% pure
5th Floor East Side Test Station	CO_2	Carbon Dioxide Calibration	18.92%
6th Floor East Side Test Station	O_2	Oxygen Span Gas Calibration	8.02%

INV	ENTORY CONTROL	STORES FILE INQ			IC0461
	Stock Number:	38381		Page	1 of 9
1	Noun	NITROGEN Size			
	Qualifier:				
	Primary LOC	GSB GSBWHS	Иеw	Cap	Reb
2	Row/Bin	LDBR01N	Binned: 2	0	0
	Buyer:	06 LESLIE LOVELL	Rcvd/Unbinned:	0	
3	Unit of Issue:	BT	Total on hand:	2	
4	Avg Unit Cost:	101.20000	Reserved:	0	
5	Reb Avg Unit C:		Available:	2	
	Cap Spare Val:		On Reqs:	0	
6		51 LIMITED ACCESS (PUR)	On Order:	6	
7	Item EMB:	M	Qty On Loan:	0	
8	Serial Flag:	N	Qty In Shop:	0	
	Obso/Surplus:		Reb/Fab Unbinn:		
10	MFG Part No:	BOTTLE	Net In System:	8	
11	Manufacturer	US WELDING	New Inv Val:		202.40
12	Description:	NITROGEN, 99.99% PURE, CYLINDER SIZE, US WELDING BOTTLE LIMITED TO LAB	SIZE 304, FT3, T	I	

WHICH ONE (E=EXIT, P#=PAGE, M=MSDS, W=WHERE USED) ?
D54600 10:17 29 APR 2004 Intermountain Power Service Corp. USER.LIVE.DATA



Praxair

5700 South Alameda Street Los Angeles, CA 90058 Telephone: (323) 585-2154

Facsimile: (714)542-6689

CERTIFICATE OF ANALYSIS

CUSTOMER IPSC DATE

03/22/04

P.O NUMBER

REF. NUMBER

17650100

REQUESTED COMPOSITION

CONCENTRATION

CARBON MONOXIDE

1000 ppm

NITROGEN

BALANCE

ANALYTICAL ACCURACY

±1 %



INSTRUMENT

ANALYTICAL PRINCIPLE

HORIBA, VIA-510, S/N 576876015

NDIR

Values not valid below 150 psig. This certified mix is N.I.S.T traceable to SRM#1681b for carbon monoxide.

THIS CYLINDER NO.

CC 168176

CERTIFIED CONCENTRATION

CYLINDER PRESSURE

2000 PSIG

CARBON MONOXIDE

EXPIRATION DATE

03/22/07

1000 ppm BALANCE

CLASSIFICATION

PRIMARY MASTER

NITROGEN

ANALYTICAL ACCURACY

±1 %

BATCH NUMBER

N/A

LOT NUMBER

109407903

PART NUMBER

EV NICO1000P-AS CYLINDER SIZE AS CGA 350

143 CFT

ANALYZED BY

CERTIFIED BY

IMPORTANT



Praxair 5700 South Alameda Street Los Angeles, CA 90058

Telephone: (323) 585-2154 Facsimile: (714)542-6689

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

CUSTOMER

P.O NUMBER

REFERENCE STANDARD

COMPONENT

NIST SRM NO.

CYLINDER NO.

CONCENTRATION

NITRIC OXIDE

GMIS

vsSRM#1687b

CC 108618

1005 ppm

SULFUR DIOXIDE

CC 16163

vs.SRM1662a

1012 ppm

CARBON DIOXIDE GMIS

vs.SRM#2745

8747556

17.99 %

ANALYZER READINGS

R=REFERENCE STANDARD

Z=ZERO GAS

C=GAS CANDIDATE

1. COMPONENT	NITRIC OXIDE	GMIS	ANALYZE	ER MAKE-	MODEL-S/N H	ORIBA, VIA-510	, 57042305	
ANALYTICAL	PRINCIPLE	NDIR				LAST CALIBE	RATION DATE	09/02/03
FIRST ANALY	SIS DATE	08/26/03				SECOND ANA	LYSIS DATE	09/03/03
Z 0	R 1001	C 881.3	CONC.	885	Z 0	R 1005	C 876.3	CONC. 876
R 1001	Z 0	C 879.3	CONC.	883	R 1005	Z 0	C 876.3	CONC. 876
\mathbf{Z}_{0}	C 881.3	R 1001	CONC.	885	\mathbf{z}_{0}	C 876.3	R 1005	CONC. 876
U/M ppm		MEAN TES	ST ASSAY	884	U/M ppm		MEAN TES	T ASSAY 876
2. COMPONENT	SULFUR DIOXII	DE	ANALYZE	ER MAKE-I	MODEL-S/N s	iemens Ultrama	t 5E S/N C1-00)9
ANALYTICAL		NDIR		ı		LAST CALIBR	RATION DATE	08/11/03
FIRST ANALY	*.	SECOND ANAL			LYSIS DATE	09/03/03		
Z 0	R 1012	C 868	CONC.	868	Z 0	R 1012	C 868	CONC. 868
R 1012	Z 0	C 868	CONC.	868	R 1012	Z 0	C 870	CONC. 870
Z 0	° C 868	R 1012	CONC.	868	Z 0	C 870	R 1012	CONC. 870
U/M ppm		MEAN TES	ST ASSAY	868	U/M ppm		MEAN TES	T ASSAY 869
3. COMPONENT	CARBON DIOXII	DE GMIS	ANALYZE	ER MAKE-I	MODEL-S/N H	ORIBA/VIA-510/	SN#02807014	
ANALYTICAL	PRINCIPLE	NDIR		:		LAST CALIBR	RATION DATE	08/11/03
FIRST ANALY	SIS DATE	08/26/03				SECOND ANA	LYSIS DATE	
Z 0	R 17.98	C 18.88	CONC.	18.89	${f z}$	R	С	CONC.
R 17.98	Z 0	C 18.86	CONC.	18.87	R	${f z}$	C	CONC.
Z 0	C 18.86	R 17.98	CONC.	18.87	Z	C	R	CONC.
U/M %		MEAN TES	ST ASSAY	18.88	U/M %		MEAN TES	T ASSAY

THIS CYLINDER NO. HAS BEEN CERTIFIED ACCORDING TO SECTION

SA 16967

EPA-600/R97/121

NITRIC OXIDE

880 ppm

OF TRACEABILITY PROTOCOL NO. **PROCEDURE**

Rev. 9/97

% NIST TRACEABLE

SULFUR DIOXIDE CARBON DIOXIDE mag 838

CERTIFIED ACCURACY

± 1

G1

18.88 %

CYLINDER PRESSURE

NITROGEN BALANCE

CERTIFIED CONCENTRATION

CERTIFICATION DATE

2000 **PSIG**

09/03/03

EXPIRATION DATE

09/03/05

TERM 24 MONTHS

NOx=880 ppm, values for reference only. Values not valid below 150 psig.NO conc.is corrected for CO2 interference

ANALYZED BY

OSEPH CHARLES

CERTIFIED BY

JACK FW

IMPORTANT



Praxair 5700 South Alameda Street Los Angeles, CA 90058 Telephone: (323) 585-2154

Facsimile: (714) 542-6689

CERTIFICATE OF ANALYSIS

CUSTOMER IPSC

DATE

01/26/04

P.O NUMBER

REF. NUMBER

61290100

REQUESTED COMPOSITION

CONCENTRATION

OXYGEN

8 %

NITROGEN

BALANCE

ANALYTICAL ACCURACY

±1 %

ANALYTICAL METHOD

INSTRUMENT

ANALYTICAL PRINCIPLE

Siemens Oxymat 5E S/N A12-839

Paramagnetic

Values not valid below 150 psig.

This certified mix is N.I.S.T traceable to SRM#2659a for oxygen.

THIS CYLINDER NO.

CC 80585

CERTIFIED CONCENTRATION

CYLINDER PRESSURE

2000 PSIG

8.01 %

EXPIRATION DATE

01/23/07

NITROGEN BALANCE

CLASSIFICATION

PRIMARY MASTER

ANALYTICAL ACCURACY

+1 %

BATCH NUMBER

N/A

LOT NUMBER

109402012

PART NUMBER

EV NIOX8N-AS

CYLINDER SIZE AS CGA 590

144 CFT

ANALYZED BY

CERTIFIED BY

OXYGEN

Eleventhe Floor

Praxair 5700 South Alameda Street Los Angeles, CA 90058 Telephone: (323) 585-2154

Facsimile: (714)542-6689

CERTIFICATE OF ANALYSIS

CUSTOMER IPSC DATE

06/20/03

P.O NUMBER

REF. NUMBER

69661200

REQUESTED COMPOSITION

GAS

CONCENTRATION

OXYGEN

0.4 %

NITROGEN

BALANCE

ANALYTICAL ACCURACY

ANALYTICAL METHOD

INSTRUMENT

ANALYTICAL PRINCIPLE

METTLER ID5, S/N:1865166

GRAVIMETRIC

Values not valid below 150 psig.

THIS CYLINDER NO.

CC 131744

CYLINDER PRESSURE 2000 PSIG

EXPIRATION DATE

12/20/03

CLASSIFICATION BATCH NUMBER

PRIMARY STANDARD

N/A

LOT NUMBER

109317010

PART NUMBER

NI OX.4P-AS

CYLINDER SIZE AS CGA 580

143 CFT

ANALYZED BY

JACK FU

CERTIFIED BY

OXYGEN

NITROGEN

ANALYTICAL ACCURACY



0.400 %

BALANCE

CERTIFIED CONCENTRATION



Praxair 5700 South Alameda Street Los Angeles, CA 90058 Telephone: (323) 585-2154

Facsimile: (714)542-6689

CERTIFICATE OF ANALYSIS

CUSTOMER

TPSC

DATE

03/22/04

P.O NUMBER

REF. NUMBER

17650100

REQUESTED COMPOSITION

GAS

CONCENTRATION

CARBON MONOXIDE

NITROGEN

mag 0001 BALANCE

ANALYTICAL ACCURACY

±1 %

ANALYTICAL METHOD

INSTRUMENT

ANALYTICAL PRINCIPLE

HORIBA, VIA-510, S/N 576876015

NDTR

Values not valid below 150 psig. This certified mix is N.I.S.T traceable to SRM#1681b for carbon monoxide.

THIS CYLINDER NO.

CC 163418

CERTIFIED CONCENTRATION

CYLINDER PRESSURE

2000 **PSIG**

CARBON MONOXIDE

NITROGEN

997 ppm BALANCE

EXPIRATION DATE

03/22/07

CLASSIFICATION

PRIMARY MASTER

ANALYTICAL ACCURACY

+1 %

BATCH NUMBER

N/A

109407901

LOT NUMBER PART NUMBER

CYLINDER SIZE AS CGA 350

EV NICO1000P-AS 143 CFT

ANALYZED BY

CERTIFIED BY



Praxair 5700 South Alameda Street Los Angeles, CA 90058 Telephone: (323) 585-2154 Facsimile: (714)542-6689

CERTIFICATE OF ANALYSIS

CUSTOMER

IPSC

DATE

03/03/04

P.O NUMBER

REF. NUMBER

96495600

REQUESTED COMPOSITION

CONCENTRATION

OXYGEN

8 %

NITROGEN

BALANCE

ANALYTICAL ACCURACY

±1 %

ANALYTICAL METHOD -

INSTRUMENT

Siemens Oxymat 5E S/N A12-839

ANALYTICAL PRINCIPLE

Paramagnetic

Values not valid below 150 psig. This certified mix is N.I.S.T traceable to SRM#2658a for oxygen.

THIS CYLINDER NO.

CC 145491

CERTIFIED CONCENTRATION

CYLINDER PRESSURE

2000 PSIG

OXYGEN

EXPIRATION DATE

03/03/07

NITROGEN BALANCE

CLASSIFICATION

PRIMARY MASTER

ANALYTICAL ACCURACY

±1 %

BATCH NUMBER

N/A

LOT NUMBER

109406104 EV NIOX8N-AS

PART NUMBER

CYLINDER SIZE AS CGA 590

144 CFT

ANALYZED BY

CERTIFIED BY

IMPORTANT

INV	ENTORY CONTROL	STORES	FILE INQ			IC0461
	Stock Number:	49189			Page	1 of 9
1	Noun	GAS	Туре	Concentrat	Cyl. Si	ze
. –		CALIBRATION	02	0.4%	150 SCE	
		GSB GSBWHS		Ne	w Cap	Reb
2	Row/Bin	LD14G		Binned:	1 0	0
_		05 NANCY BENNETT		Rcvd/Unbinned	: 0	
3	_	EA		Total on hand	: 1	
	Avg Unit Cost:	138.18660		Reserved:	0	
	Reb Avg Unit C:			Available:	1	
Ŭ	Cap Spare Val:			On Reqs:	0	
6	Class (1-10):	51 LIMITED ACCESS (PUR)	On Order:	2	
	Item EMB:	В		Qty On Loan:	0	
	Serial Flag:	N		Qty In Shop:	0	
	Obso/Surplus:		13	Reb/Fab Unbin	n:	
	MFG Part No:	150-02-0.4		Net In System	: 3	
	Manufacturer	SCOTT MARRIN	,	New Inv Val:		138.19
	Description:	GAS, CALIBRATION,	02, 0.4%, 150	SCF, (limited		
	2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	access to I&C tech	nicians only)			
		SCOTT MARRIN / 150				

WHICH ONE (E=EXIT, P#=PAGE, M=MSDS, W=WHERE USED) ?
D54600 10:18 29 APR 2004 Intermountain Power Service Corp. USER.LIVE.DATA

IDDAYAN

Praxair

5700 South Alameda Street Los Angeles, CA 90058

Telephone: (323) 585-2154 Facsimile: (714)542-6689

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

CUSTOMER

IPSC

P.O NUMBER

REFERENCE STANDARD

COMPONENT

NIST SRM NO.

CYLINDER NO.

CONCENTRATION

NITRIC OXIDE

GMIS

vsSRM#1687b

CC 108618

1005 ppm

CC 16163

SULFUR DIOXIDE

vs.SRM1662a

1012 ppm

CARBON DIOXIDE GMIS

vs.SRM#2745

8747556

17.99 %

ANALYZER READINGS

R=REFERENCE STANDARD

 $Z = Z \stackrel{\triangleright}{E} RO GAS$

C=GAS CANDIDATE

1. COMPONENT NITRIC OXIDE	GMIS ANALYZ	ER MAKE MODEL-S/N	HORIBA, VIA-510,	, 57042305	
ANALYTICAL PRINCIPLE	NDIR	j	LAST CALIBR	ATION DATE	09/02/03
FIRST ANALYSIS DATE	08/26/03		SECOND ANAL	YSIS DATE	09/03/03
Z 0 R 1001	C 876.3 CONC.	880 Z 0	R 1005	C 878.3	CONC. 878
R 1001 Z 0	C 873.3 CONC.	877 R 1005	· Z o	C 879.3	CONC. 879
Z_{0} $C_{874.3}$	R $_{1001}$ CONC.	878 Z 0	C 879.3	R 1005	CONC. 879
U/M ppm	MEAN TEST ASSAY	878 U/M pp	m	MEAN TES	T ASSAY 879
2. COMPONENT SULFUR DIOXIDE	E ANALYZI	ER MAKE-MODEL-S/N	Siemens Ultramat	5E S/N C1-00	9
ANALYTICAL PRINCIPLE	NDIR	ř. }	LAST CALIBR	ATION DATE	08/11/03
2 April 2 Apri	08/26/03	<u> </u>	SECOND ANAL	YSIS DATE	09/03/03
Z 0 R 1012	C 866 CONC.	866 Z 0	R 1012	C 864	CONC. 864
R 1012 Z 0	C 866 CONC.	866 R 1012	Z o	C 864	CONC. 864
Z 0 C 866	R 1012 CONC.	866 Z 0	C 864	R 1012	CONC. 864
U/M ppm	MEAN TEST ASSAY	866 U/M pp	m	MEAN TES	T ASSAY 864
3. COMPONENT CARBON DIOXIDE	E GMIS ANALYZ	ER MAKE-MODEL-S/N	HORIBA/VIA-510/S	SN#02807014	
ANALYTICAL PRINCIPLE	NDIR		LAST CALIBR	ATION DATE	08/11/03
FIRST ANALYSIS DATE	08/26/03	i	SECOND ANAL	YSIS DATE	
Z 0 R 17.98	C 18.84 CONC.	18.85 Z	R	C	CONC.
R 17.98 Z 0	C 18.92 CONC.	18.93 R	${f z}$	C	CONC.
Z 0 C 18.86	R 17.98 CONC.	18.87 Z	С	R	CONC.
U/M %	MEAN TEST ASSAY	18.88 U/M %		MEAN TES	T ASSAY

THIS CYLINDER NO. HAS BEEN CERTIFIED ACCORDING TO SECTION

CC 19125

EPA-600/R97/121

CERTIFIED CONCENTRATION NITRIC OXIDE

below 150 psig.NO conc.is corrected for CO2 interferenc

878 ppm

OF TRACEABILITY PROTOCOL NO.

Rev. 9/97

865 ppm

PROCEDURE G1

SULFUR DIOXIDE CARBON DIOXIDE

18.88 %

CERTIFIED ACCURACY ± 1

% NIST TRACEABLE

BALANCE

CYLINDER PRESSURE

2000 **PSIG**

NITROGEN

CERTIFICATION DATE EXPIRATION DATE

09/03/03 09/03/05

TERM 24 MONTHS

NOx=878 ppm, values for reference only. Values not valid

ANALYZED BY

OSEPH CHARLES

CERTIFIED BY

JACK FU

IMPORTANT

west Sid 4+4

PRAXAIR

Praxair

5700 South Alameda Street Los Angeles, CA 90058 Telephone: (323) 585-2154 Facsimile: (714) 542-6689

CERTIFICATE OF ANALYSIS

CUSTOMER

IPSC

DATE

01/26/04

P.O NUMBER

REF. NUMBER

61290100

REQUESTED COMPOSITION

GAS

CONCENTRATION

OXYGEN

NITROGEN

ANALYTICAL ACCURACY

BALANCE

ANALYTICAL METHOD

INSTRUMENT

Siemens Oxymat 5E S/N A12-839

ANALYTICAL PRINCIPLE

Paramagnetic

Values not valid below 150 psig.

This certified mix is N.I.S.T traceable to SRM#2659a for oxygen.

THIS CYLINDER NO.

CC 108622

CERTIFIED CONCENTRATION

CYLINDER PRESSURE

2000 **PSIG** 01/23/07

NITROGEN

8.02 % BALANCE

EXPIRATION DATE CLASSIFICATION

PRIMARY MASTER

ANALYTICAL ACCURACY

±1 %

BATCH NUMBER

N/A

LOT NUMBER

109402010

PART NUMBER

EV NIOX8N-AS

CYLINDER SIZE AS CGA 590

144 CFT

ANALYZED BY

CERTIFIED BY

IMPORTANT

past Side 7

Praxair 5700 South Alameda Street Los Angeles, CA 90058

Telephone: (323) 585-2154 Facsimile: (714)542-6689

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

CUSTOMER

IPSC

P.O NUMBER

REFERENCE STANDARD

COMPONENT

NIST SRM NO.

CYLINDER NO.

CONCENTRATION

NITRIC OXIDE

vsSRM#1687b

CC 108618

1005 ppm

SULFUR DIOXIDE

CC 16163

vs.SRM1662a

1012 ppm 17.99 %

CARBON DIOXIDE GMIS vs.SRM#2745

R=REFERENCE STANDARD

8747556

ANALYZER READINGS Z=ZERO GAS

C=GAS CANDIDATE

		4				
1. COMPONENT NITRIC OXID ANALYTICAL PRINCIPLE	E GMIS	ANALYZER MAKE		A, VIA-510, ST CALIBRA		09/02/03
FIRST ANALYSIS DATE	08/26/03			COND ANALY		, ,
Z 0 R 1001	C 875.3	CONC. 879		R 1005	C 875.3	09/03/03 CONC. 875
R 1001 Z 0	C 875.3	CONC. 879	-	Z 0	C 876.3	CONC. 876
Z 0 C 875.3	R 1001	CONC. 879		C 876.3	R ₁₀₀₅	CONC. 876
U/M ppm	MEAN TES	ST ASSAY 879	U/M ppm			T ASSAY 876
2. COMPONENT SULFUR DIOX	IDE	ANALYZER MAKE	MODEL-S/N Sieme	ns Ultramat	5E S/N C1-00	09
ANALYTICAL PRINCIPLE	NDIR	1		ST CALIBRA	· ·	08/11/03
FIRST ANALYSIS DATE	08/26/03	2.	SEC	COND ANALY	SIS DATE	09/03/03
Z 0 R 1012	C 868	CONC. 868	Z 0	R 1012	C 866	CONC. 866
R 1012 Z 0	C 866	CONC. 866	R 1012	Z o	C 868	CONC. 868
Z 0 C 866	R 1012	CONC. 866	Z 0	C 868	R 1012	CONC. 868
U/M ppm	MEAN TES	ST ASSAY 867	U/M ppm		MEAN TES	T ASSAY 868
3. COMPONENT CARBON DIOX	IDE GMIS	ANALYZER MAKE	MODEL-S/N HORIB	A/VIA-510/SN	#02807014	
ANALYTICAL PRINCIPLE	NDIR	,		ST CALIBRA		08/11/03
FIRST ANALYSIS DATE	08/26/03	1	SEC	OND ANALV	CIC DATE	,,

Citiz ppin	* .	and the second		MANUAL I IN	OI AUUNAI	007	O/IVI P	Piii	IVALE PAIN I LES	31 ASSA1 86
COMPONENT	CARBO	DIOXIE	E GM	ıs İ	ANALYZ	ER MAKE	MODEL-S/N	HORIBA/VIA-5	10/SN#02807014	
ANALYTICAL I	PRINC	CIPLE	NDIR			,		LAST CAL	BRATION DATE	08/11/03
FIRST ANALYS	IS DA	TE	08/2	6/03			,	SECOND A	NALYSIS DATE	
Z 0	R	17.98	C	18.88	CONC.	18.89	Z	R	C	CONC.
R 17.98	Z	ø	C	18.94	CONC.	18.95	R	Z	\mathbf{c}	CONC.
Z 0	C	18.90	R	17.98	CONC.	18.91	Z	C	R	CONC.
U/M %			N	MEAN TE	ST ASSAY	18.92	U/M %		MEAN TES	ST ASSAY

THIS CYLINDER NO.

CC 102202

CERTIFIED CONCENTRATION

HAS BEEN CERTIFIED ACCORDING TO SECTION

EPA-60/R97/121

NITRIC OXIDE

OF TRACEABILITY PROTOCOL NO.

878 ppm

PROCEDURE G1 SULFUR DIOXIDE

mqq 888

CERTIFIED ACCURACY ± 1

% NIST TRACEABLE

Rev. 9/97

18.92 %

CYLINDER PRESSURE

2000 PSIG

CARBON DIOXIDE

BALANCE

NITROGEN

CERTIFICATION DATE

09/03/03

NOx=878 ppm, values for reference only. Values not valid

EXPIRATION DATE

09/03/05

TERM 24 MONTHS

below 150 psig.NO conc.is corrected for CO2 interferenc

ANALYZED BY

CERTIFIED BY

IMPORTANT

Earl Si Le 444 PRAXAIR

Praxair 5700 South Alameda Street Los Angeles, CA 90058

Telephone: (323) 585-2154 Facsimile: (714) 542-6689

CERTIFICATE OF ANALYSIS

CUSTOMER

DSC

DATE

01/26/04

P.O NUMBER

REF. NUMBER

61290100

REQUESTED COMPOSITION

SAS

CONCENTRATION

OXYGEN

8 8

NITROGEN

BALANCE

ANALYTICAL ACCURACY

±1 %

ANALYTICAL METHOD

INSTRUMENT

Siemens Oxymat 5E S/N Al2-839

ANALYTICAL PRINCIPLE

Paramagnetic

Values not valid below 150 psig,

This certified mix is N.T.S.T traceable to SRM#2659a for oxygen.

THIS CYLINDER NO.

CC 110521

CERTIFIED CONCENTRATION

CYLINDER PRESSURE

2000 **PSIG**

8.01 %

EXPIRATION DATE

01/23/07 PRÎMARY MASTER

BALANCE

CLASSIFICATION DEATCH NUMBER

N/A

LOT NUMBER

.

PART NUMBER

109402009

CYLINDER SIZE AS CGA 590

EV NIOX8N-AS

144 CFT

ANALYZED BY

JACY FU

CERTIFIED BY

OXYGEN

NITROGEN

ANALYTICAL ACCURACY

Y TRIPLETT

IMPORTANT